

# **BLOODDONOR SYSTEM**

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JUDUL: BLOODDONOR SYSTEM

SESI PENGAJIAN: 2013/2014

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## DEDICATION

*Dear Allah*

*for givng me the ides, strength, knowledge and good health that helps me to finish this project as schedule.*

*Dear Beloved Parents and Families*

*for keep supporting me with their love, care and motivations to finish this project.*

*Dear Lectures, Supervisor and Evaluator*

*for the guidance, patience, encouragement and supervision during my period of finishing this project.*

*Dear Friends*

*for the friendship through this 3 years and the knowledge that you all had shared in order to complete this project.*

*Dear Sweetheart*

*for the understanding and the motivation to keep going with all the hardwork and effort that I have.*

## ABSTRACT

**'BloodDonor System'** is a system that will be built to replace the existing manual system. It will store the personal data of blood donors, blood donate reports, staff that handle the blood donation process and also provide a blood donation campaign advertising that will happened surrounds blood donors who have registered with the system. Previously, blood donors will be given a red book as a certificate that stores history of their donated blood. Through the certificate, blood donors will be rewarded by their frequency of blood donation. Problems often faced by donors and staff involved is when the certificate is lost. The data of blood donors and blood donation records were lost. Because of that, they have to register for the second time and also the reward will be recalculated. To overcome this problem, the system has been designed to minimize the problem. In addition, this system also provides accurate reports to the admin and staff. The report includes the number of blood collected by blood type, the number of blood donors that came to donate their blood in each blood donation event and also a reports on staff who had conducted the event.

## ABSTRAK

**'BloodDonor System'** adalah sistem yang akan dibina menggantikan sistem manual sedia ada. Ia akan menyimpan data penderma darah, laporan darah yang telah diderma, staff yang mengendalikan proses menderma darah dan juga menyediakan iklan kempen derma darah yang ada di sekeliling penderma darah yang telah berdaftar dengan sistem ini. Sebelum ini, penderma darah akan diberi buku merah sebagai buku catatan yang menyimpan laporan darah yang telah diderma. Melalui buku catatan itu, penderma darah akan diberi ganjaran melalui bilangan kekerapan mereka menderma darah. Masalah yang selalu dihadapi oleh penderma darah dan juga staff yang terlibat adalah ketika buku catatan itu hilang. Segala data penderma darah dan juga rekod menderma darah mereka turut hilang. Disebabkan itu, mereka terpaksa mendaftar untuk kali kedua dan ganjaran juga akan dikira semula. Untuk mengatasi masalah ini, sistem ini telah dirangka agar dapat mengurangkan masalah yang dihadapi. Selain itu, sistem ini turut menyediakan laporan yang tepat kepada pihak admin dan staff. Laporan adalah termasuk bilangan darah yang dikumpul mengikut jenis darah, bilangan penderma darah yang datang menderma di setiap kempen dan juga laporan tentang staff yang akan mengendalikan kempen tersebut.

## TABLE OF CONTENT

<b>CHAPTER</b>	<b>SUBJECT</b>	<b>PAGE</b>
	DEDICATION	iii
	ACKNOWLEDGEMENT	iv
	ABSTRACT	v
	ABSTRAK	vi
	TABLE OF CONTENT	vii
	LIST OF TABLE	x
	LIST OF FIGURE	xiii
 <b>CHAPTER I</b>	 <b>INTRODUCTION</b>	
	1.1 Project Background	1
	1.2 Problem Statements	2
	1.3 Objective	2
	1.4 Scope	3
	1.5 Project Significance	5
	1.6 Expected Output	5
	1.7 Conclusion	6



<b>CHAPTER II</b>	<b>ANALYSIS</b>	
2.1	Introduction	7
2.2	Background of Current System	8
2.3	Current System Interface	9
2.4	Context Diagram of Current System	11
2.5	DFD of Current System	12
2.6	Requirement Analysis	12
2.6.1	Data Requirement	12
2.6.2	Functional Requirement	14
2.6.3	Non-Functional Requirement	15
2.6.4	Software Requirement	16
2.6.5	Hardware Requirement	17
2.6.6	Network Requirement	18
2.6.7	Size of Data	19
2.7	Conclusion	19
<b>CHAPTER III</b>	<b>DESIGN</b>	
3.1	Introduction	20
3.2	High-Level Design	21
3.2.1	System Architecture	21
3.2.2	User Interface Design	22
3.2.2.1	Navigation Design	23
3.2.2.2	Input Design	23

	3.2.2.3 Output Design	26
3.3	Context Diagram	27
3.4	Data Flow Diagram (DFD)	27
3.5	Database Design	28
	3.5.1 Conceptual and Logical Database Design	28
	3.5.1.1 Conceptual Database Design	28
	3.5.1.2 Logical Database Design	31
3.6	Conclusion	37
<b>CHAPTER IV</b>	<b>IMPLEMENTATION</b>	
4.1	Introduction	38
4.2	Software Development Environment Setup	39
	4.2.1 Software and Hardware Environment Setup	39
	4.2.2 Database development Enviroment Setup	40
4.3	Software Configuration Management	40
	4.3.1 Configuration Environment Setup	41
4.4	Implementation Status	41
4.5	Main Module Flow	42
	4.5.1 Create Donate History	43
	4.5.2 Update Hospital	44

	4.5.3	Delete Hospital	46
	4.5.4	Report	47
	4.6	Conclusion	48
<b>CHAPTER V</b>	<b>TESTING</b>		
	5.1	Introduction	49
	5.2	Test Plan	50
	5.2.1	Test Organization	50
	5.2.2	Test Environment	50
		5.2.2.1 Environment Setup	51
	5.2.3	Test Schedule	51
	5.3	Test Strategy	52
	5.3.1	White Box Testing	52
		5.3.1.1 Unit Testing	53
		5.3.1.2 Execution Testing	53
		5.3.1.3 Conditional Coverage	53
	5.4	Black Box Testing	55
	5.4.1	Test Description	55
	5.4.2	Test Data	62
	5.5	Test Result and Analysis	66
	5.6	Conclusion	68

<b>CHAPTER VI</b>	<b>PROJECT CONCLUSION</b>	
6.1	Introduction	69
	6.1.1 System Strengths	70
	6.1.2 System Weakness	70
6.2	Proposition for Improvement	70
6.3	Contribution	71
6.4	Conclusion	71
<b>APPENDIX</b>	<b>A PSM MILESTONE</b>	
	<b>B SYSTEM INTERFACE</b>	
	<b>C DATA FLOW DIAGRAM (DFD)</b>	

## LIST OF TABLE

<b>TABLE</b>	<b>TITLE</b>	<b>PAGE</b>
2.1	Software Requirement	17
2.2	Hardware Requirement for System	17
2.3	Network Requirement	18
3.1	User Interface	21
3.2	Input Design of Login Module	24
3.3	Input Design of Staff Registration Module	24
3.4	Input Design of Event Registration Module	24
3.5	Input Design of Hospital Registration Module	25
3.6	Input Design of Donor Registration Module	25
3.7	Input Design of Donor History Record Module	26
3.8	Output Design for Each Form	26
3.9	Data Dictionary for Hospital	34
3.10	Data Dictionary for Event	34
3.11	Data Dictionary for Staff	35
3.12	Data Dictionary for Donor	35
3.13	Data Dictionary for Donate_History	36
3.14	Data Dictionary for Reward	36
3.15	Data Dictionary for Admin	36

4.1	Software and Hardware Requirements	40
4.2	Configuration Environment Setup for System	41
4.3	Implementation status of BloodDonor System	41
5.1	User and Task Used in Testing Phase	50
5.2	Environment Setup Specification	51
5.3	Test Schedule	51
5.4	Test Login for Login Module	56
5.5	Test Donor Registration for Donor and Staff Registration Module	56
5.6	Test Staff Registration for Donor and Staff Registration Module	57
5.7	Test Hospital Registration for Hospital and Event Registration Module	58
5.8	Test Event Registration for Hopital and Event Registration Module	59
5.9	Test Donor Update for Update Information Modules	59
5.10	Test Hospital Update for Update Module	60
5.11	Test Delete Event for Delete Information Module	61
5.12	Test Number of Blood Donated for Generate Report Module	61
5.13	Test Data for Login	62
5.14	Test Donor Registration data and Donor and Staff Registration Module	63

5.15	Test Staff Registration data for Donor and Staff Registration Module	63
5.16	Test Hospital Registration data for Hospital and Event Registration Module	64
5.17	Test Event Registration data for Hospital and Event Registration Module	65
5.18	Test Update Donor data for Update System Information Module	65
5.19	Test Update Staff data for Update System Information Module	66
5.20	Test Results and Analysis	66

## LIST OF FIGURE

<b>FIGURE</b>	<b>TITLE</b>	<b>PAGE</b>
2.1	Flow Chart of Current System	8
2.2	Front Cover of Donation Certificate	9
2.3	Blood Donor Profile	10
2.4	Record of Donation History	10
2.5	Table of Rewards	11
2.6	Context Diagram of Current System	11
2.7	DFD Level 1 of Current System	12
3.1	Two-Tier Architecture	22
3.2	Navigation Design	23
3.3	Context Diagram for BloodDonor System	27
3.4	ERD of BloodDonor System	29
4.1	How Two-Tier Architecture Looks Like	39
4.2	Create Donate History Flow Chart	43
4.3	Flow Chart for Insert History Procedure	43
4.4	Update Hospital Flow Chart	44
4.5	Flow Chart for ListHosp Function	44
4.6	Flow Chart for searchHosp Procedure	45
4.7	Flow Chart for updateHosp Procedure	45



4.8	Delete Hospital Flow Chart	46
4.9	Flow Chart for updateHosp Procedure	46
4.10	Report Flow Chart	47
4.11	Flow Chart for bloodReport Function	47
5.1	Login Module using IF ELSE Condition	54

## **CHAPTER I**

### **INTRODUCTION**

#### **1.1 Project Background**

BloodDonor System is a system that will replace a manual current system into the computerized system. It will save the data of the blood donor, amount of blood they donated, time and location detail about the blood donor event. Besides that, it will also allow user to check the next blood donor event around their place.

Currently this blood donor program use a manual system by writing all the details about the blood they had donated in a small red book given to the blood donor when they donate blood for the first time. Only staffs will add and update their blood donation detail. They will also register a new blood donor and save all their personal information.

Administrator will be the main person in charge of this system. They will add the detail of a staff that will participate in the blood donor event, and update the

entire blood donor event that will happen next. They also are responsible to register a new hospital that want to take part into this BloodDonor System

By using this system, it will help to organize the blood donor data systematically and make the whole process to be more specified and secure.

## **1.2 Problem Statements**

Blood donor and donated blood information is kept only in the book which can create a problem when that book is missing. Besides, it is hard to figure exact amount of blood collected in each event that happen in the same day. The numbers of people who donate their blood at some event also are hard to figure.

## **1.3 Objective**

The objectives that we want to achive through this system is to make a computerized system so that all the information related to the donor and their donated blood will be kept in the database safely. Besides that, we also want to improve the process of calculated and analyzing the amount of blood collected in each event that happen in the same day. With the help of this system, it also will create a proper report with the detailed on the amount of people who donated their blood in some event.

## 1.4 Scope

For this project, it was divided into two types of scopes: user scope and system scope. User scope is a scope that defined a user that will use this system. Only listed users are able to use this system. System scope or also known as system modules is a list of what this system will do. These modules will be developed during the implementation of this system.

### i. User Scope

- Blood Donor

Users can use this system by viewing his/her profile, donor history, reward and event. Besides, they are also able to edit their profile and view their donation report.

- Staff

Users who will maintain the system by managing donor, donor history, event, and register donor information.

- Admin

Users who will maintain the system by managing the staff, event, and view the report.

### ii. Modules

- 1) Login Module

A module to verify the user. User will log on into the system and will be directed to the specific pages by scanning their ID.

- 2) Donor and Staff Registration

A module to add new donor and staff into the system. The staff will register the donor, while staffs are registered by the admin

3) Hospital and Event Registration

A module to add new hospital and event into the list. Admin will add new hospital and new event. This module will be conducted by the admin, staff and donors have no authority to edit the information entered by the admin.

4) Update Information

A module that develop an update option to the system. Not all users can edit all data. Donor can only edit their own profile, while staff can update the donor profile and but not their own profile. Only admin are allowed to update the information about staff, event and hospital information.

5) Delete Information

This module is to delete some information in the data. Only specific person can do his delete module on the information. Donor cannot delete anything, while staff can delete donor information. Only admin can delete staff, event and hospital information

6) Generate Report

A module that will generate report for the collected data. This module can be conducted only by the staff and admin.

## **1.5 Project Significance**

This system is build to replace the current manual system. This system will bring a benefit to donors as they are able to donate blood without need to bring their small donation book detail that they used before. Beside that, the red book also give a problem if it is missing, so by using this system, all the donor and donation information will be saved in the database. Staff also will get benefits from this system by managing the donor information more easier than usual. Besides that, the staff also can record the exact amount of blood donated. Admin can also update the current amount of blood donated from all events that happened the same day. The information in the system also will be kept safely.

## **1.6 Expected Output**

This system will be able to keep the data in the system secured and safe in the system. This system should be easy to use and help donor to keep their data and history safely. This system will be able to handle basic system operations such as add, delete, update and search. This system will be user friendly with the use of menu bar and easy to understand. Staff can make the donation process become faster too.

The system should also be able to generate detailed report to Staff and also Admin. There will be some security to detect redundant data, staff login operation and wrong format detail insertion.

## 1.7 Conclusion

This chapter is about the early view of what will be from the developer's view. Project background describe the introduction for the project and includes the problem has occurs from previous system, the aim of this system, the target user, module, the benefit of this system and the expected result from this project.

The problem statement describes the problem related to why should this system be developed. By replacing and improving the management system, less manual work will be required in the process of collecting, handling and maintaining of the data. The scope of the projects explains the module and target user for this system. While the project significance delivers what the system can provide based on developer's side. The expected output explains the system ability from user view.

The next chapter which is chapter 2 will be the literature review and methodology to be use in developing this project.

## **CHAPTER II**

### **ANALYSIS**

#### **2.1 Introduction**

In this analysis chapter, we will gather all information and requirement needed for the implementation phase for this system. Besides, this chapter also will explain the process and the operations of current system. From this analysis, we will collect as much information that will be used to build a new system.

For the collecting informations process, we used an interview method, observation and library research. In order to develop the BloodDonor System, all methods are necessary.